



Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 07/27/2021

SAMPLE NAME: CBD Isolate 1010

Concentrate, Hemp

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: Crescent Canna

License Number:

Address:

SAMPLE DETAIL

Batch Number: CCISO_1010

Date Collected: 07/23/2021

Sample ID: 210723R011

Date Received: 07/23/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 10 grams per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC = Δ9THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ9THC + THCa + CBD + CBDA + CBG + CBGa +

THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN

Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDA) +

(CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) +

(CBDV+0.877*CBDVa) + Δ8THC + CBL + CBN

Total Cannabinoids: 99.541%

Sum of Cannabinoids: 99.541%

Total Cannabinoids: 99.541%

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Residual Solvents: Pass

Heavy Metals: ND

Microbiology (PCR): ND

Microbiology (Plating): ND

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS – Results within limits/specifications, FAIL – Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LOC verified by: Randi Vuono
Date: 07/27/2021

Approved by: Josh Wurzer, President
Date: 07/27/2021

Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: Not Detected

Total THC ($\Delta 9\text{THC} + 0.877 \times \text{THCa}$)

TOTAL CBD: 99.348%

Total CBD ($\text{CBD} + 0.877 \times \text{CBDa}$)

TOTAL CANNABINOIDs: 99.541%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta 9\text{THC} + \text{CBL} + \text{CBN}$

TOTAL CBG: ND

Total CBG ($\text{CBG} + 0.877 \times \text{CBGa}$)

TOTAL THCV: ND

Total THCV ($\text{THCV} + 0.877 \times \text{THCVa}$)

TOTAL CBC: ND

Total CBC ($\text{CBC} + 0.877 \times \text{CBCa}$)

TOTAL CBDV: 0.193%

Total CBDV ($\text{CBDV} + 0.877 \times \text{CBDVa}$)

CANNABINOID TEST RESULTS - 07/25/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.07 / 0.29	± 45.998	993.48	99.348
CBDV	0.04 / 0.15	± 0.084	1.93	0.193
$\Delta 9\text{THC}$	0.06 / 0.26	N/A	ND	ND
$\Delta 8\text{THC}$	0.1 / 0.4	N/A	ND	ND
THCa	0.05 / 0.14	N/A	ND	ND
THCV	0.1 / 0.2	N/A	ND	ND
THCVa	0.07 / 0.20	N/A	ND	ND
CBDa	0.02 / 0.19	N/A	ND	ND
CBDVa	0.03 / 0.53	N/A	ND	ND
CBG	0.06 / 0.19	N/A	ND	ND
CBGa	0.1 / 0.2	N/A	ND	ND
CBL	0.06 / 0.24	N/A	ND	ND
CBN	0.1 / 0.3	N/A	ND	ND
CBC	0.2 / 0.5	N/A	ND	ND
CBCa	0.07 / 0.28	N/A	ND	ND
SUM OF CANNABINOIDs			995.41 mg/g	99.541%

Unit Mass: 10 grams per Unit

$\Delta 9\text{THC}$ per Unit	ND
Total THC per Unit	ND
CBD per Unit	9934.80 mg/unit
Total CBD per Unit	9934.80 mg/unit
Sum of Cannabinoids per Unit	9954.10 mg/unit
Total Cannabinoids per Unit	9954.10 mg/unit





Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 07/25/2021 ND

COMPOUND	LOD/LOQ ($\mu\text{g/g}$)	MEASUREMENT UNCERTAINTY ($\mu\text{g/g}$)	RESULT ($\mu\text{g/g}$)
Abamectin	0.03 / 0.10	N/A	ND
Azoxystrobin	0.01 / 0.04	N/A	ND
Bifenazate	0.01 / 0.02	N/A	ND
Bifenthrin	0.01 / 0.02	N/A	ND
Boscalid	0.02 / 0.06	N/A	ND
Chlorpyrifos	0.02 / 0.06	N/A	ND
Cypermethrin	0.1 / 0.3	N/A	ND
Etoxazole	0.010 / 0.028	N/A	ND
Hexythiazox	0.01 / 0.04	N/A	ND
Imidacloprid	0.01 / 0.04	N/A	ND
Malathion	0.02 / 0.05	N/A	ND
Myclobutanil	0.03 / 0.1	N/A	ND
Permethrin	0.03 / 0.09	N/A	ND
Piperonylbutoxide	0.003 / 0.009	N/A	ND
Propiconazole	0.01 / 0.03	N/A	ND
Spiromesifen	0.02 / 0.05	N/A	ND
Tebuconazole	0.02 / 0.07	N/A	ND
Trifloxystrobin	0.01 / 0.03	N/A	ND



Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

RESIDUAL SOLVENTS TEST RESULTS - 07/25/2021 DETECTED

COMPOUND	LOD/LOQ ($\mu\text{g/g}$)	MEASUREMENT UNCERTAINTY ($\mu\text{g/g}$)	RESULT ($\mu\text{g/g}$)
Propane	10 / 20	N/A	ND
Butane	10 / 50	N/A	ND
Pentane	20 / 50	± 25.5	509
Hexane	2 / 5	N/A	ND
Heptane	20 / 60	N/A	ND
Benzene	0.03 / 0.09	N/A	ND
Toluene	7 / 21	N/A	ND
Total Xylenes	50 / 160	N/A	ND
Methanol	50 / 200	N/A	ND
Ethanol	20 / 50	N/A	ND
Isopropyl Alcohol	10 / 40	N/A	ND
Acetone	20 / 50	N/A	ND
Ethyl ether	20 / 50	N/A	ND
Ethylene Oxide	0.3 / 0.8	N/A	ND
Ethyl acetate	20 / 60	N/A	ND
Chloroform	0.1 / 0.2	N/A	ND
Methylene chloride	0.3 / 0.9	N/A	ND
Trichloroethylene	0.1 / 0.3	N/A	ND
1,2-Dichloroethane	0.05 / 0.1	N/A	ND
Acetonitrile	2 / 7	N/A	ND

Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 07/24/2021 ND

COMPOUND	LOD/LOQ ($\mu\text{g/g}$)	MEASUREMENT UNCERTAINTY ($\mu\text{g/g}$)	RESULT ($\mu\text{g/g}$)
Arsenic	0.02 / 0.1	N/A	ND
Cadmium	0.02 / 0.05	N/A	ND
Lead	0.04 / 0.1	N/A	ND
Mercury	0.002 / 0.01	N/A	ND





Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 07/27/2021 ND

COMPOUND	RESULT (cfu/g)
Shiga toxin-producing <i>Escherichia coli</i>	ND
<i>Salmonella</i> spp.	ND
Bile-Tolerant Gram-Negative Bacteria	ND
<i>Staphylococcus aureus</i>	ND

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 07/27/2021 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND

